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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 26	CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:56:47 ON 16 FEB 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'REGISTRY' ENTERED AT 16:57:40 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\106291081.str

chain nodes :
7 8 9 10 11 12
ring nodes :
1 2 3 4 5 6
chain bonds :
1-8 4-7 8-9 8-10 10-11 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
4-7 8-9 11-12
exact bonds :

1-8 8-10 10-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

G2:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS

L1   STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 16:57:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   6765 TO ITERATE

 14.8% PROCESSED   1000 ITERATIONS   30 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 130370 TO   140230
PROJECTED ANSWERS: 3205 TO   4913

L2   30 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 16:59:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 135281 TO ITERATE

100.0% PROCESSED 135281 ITERATIONS   4080 ANSWERS
SEARCH TIME: 00.00.02

L3   4080 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                       ENTRY   SESSION
FULL ESTIMATED COST   167.78   168.20

FILE 'CAPLUS' ENTERED AT 17:07:11 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907 - 16 Feb 2005 VOL 142 ISS 8
FILE LAST UPDATED: 15 Feb 2005 (20050215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 680 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.35	169.55

FILE 'REGISTRY' ENTERED AT 17:08:57 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\106291082.str

chain nodes :
7 8 9 10 11 12
ring nodes :

10/629,108

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1  2  3  4  5  6
chain bonds :
1-8  4-7  8-9  8-10  10-11  11-12
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
4-7  8-9  11-12
exact bonds :
1-8  8-10  10-11
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :


G1:O,S

G2:O,S,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS  12:CLASS



L5      STRUCTURE UPLOADED

=> s l5
SAMPLE SEARCH INITIATED 17:09:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   6724 TO ITERATE

 14.9% PROCESSED    1000 ITERATIONS                              23 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       129565 TO   139395
PROJECTED ANSWERS:            2347 TO     3839

L6           23 SEA SSS SAM L5

=> s l5 ful
FULL SEARCH INITIATED 17:09:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 134869 TO ITERATE

100.0% PROCESSED  134869 ITERATIONS                          3664 ANSWERS
SEARCH TIME: 00.00.02

L7         3664 SEA SSS FUL L5

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 161.33     330.88

FILE 'CAPLUS' ENTERED AT 17:09:31 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 16 Feb 2005 VOL 142 ISS 8
FILE LAST UPDATED: 15 Feb 2005 (20050215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 649 L7

=> d l8 ibib hitstr 1-10

L8 ANSWER 1 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:36482 CAPLUS
DOCUMENT NUMBER: 142:133207
TITLE: Enzymic stereospecific and enantiomeric enrichment of β-amino acids
INVENTOR(S): Chase, Matthew; Clayton, Robert; Landis, Bryan; Banerjee, Amit
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 44 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005009151	A1	20050113	US 2004-875161	20040622
WO 2005005633	A2	20050120	WO 2004-IB2183	20040630

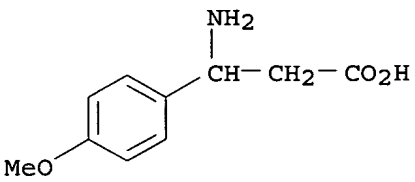
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-486032P P 20030710
US 2003-499622P P 20030902

IT **5678-45-5P**
RL: BCP (Biochemical process); BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological study); PREP (Preparation); PROC (Process);

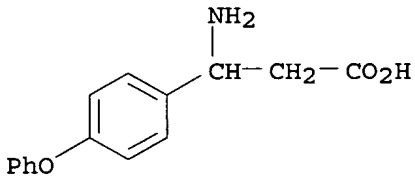
RACT (Reactant or reagent)
(enzymic stereospecific and enantiomeric enrichment of β-amino acids)

RN 5678-45-5 CAPLUS
CN Benzenepropanoic acid, β-amino-4-methoxy- (9CI) (CA INDEX NAME)



IT **213192-51-9**
RL: BCP (Biochemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(enzymic stereospecific and enantiomeric enrichment of β-amino acids)

RN 213192-51-9 CAPLUS
CN Benzenepropanoic acid, β-amino-4-phenoxy- (9CI) (CA INDEX NAME)

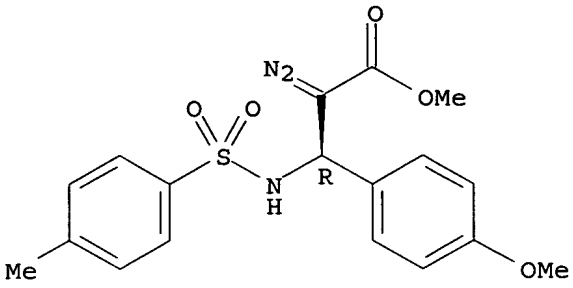


L8 ANSWER 2 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:1044920 CAPLUS
DOCUMENT NUMBER: 142:134184
TITLE: A highly stereoselective addition of the anion derived from α-diazoacetamide to aromatic N-tosylimines
AUTHOR(S): Zhao, Yonghua; Ma, Zhihua; Zhang, Xiaomei; Zou, Yaping; Jin, Xianglin; Wang, Jianbo
CORPORATE SOURCE: Key Laboratory of Bioorganic Chemistry and Molecular Engineering of the Ministry of Education, Peking University, Beijing, 100871, Peop. Rep. China
SOURCE: Angewandte Chemie, International Edition (2004), 43(44), 5977-5980
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **825627-59-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of chiral Me aminohydroxyesters via base-promoted condensation of chiral diazocarbonyl compds. with tosylimines followed by removal of chiral auxiliary, diazo oxidation and stereoselective ketone reduction)

RN 825627-59-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry. Rotation (-).

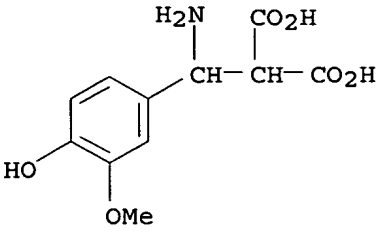


L8 ANSWER 3 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:1033523 CAPLUS
DOCUMENT NUMBER: 142:2109
TITLE: Preparation of copper salts of organic acids as agrochemical and technical fungicides
INVENTOR(S): Gusmeroli, Marilena; Mormile, Silvia Maria; Gironda, Ramona; Mirenna, Luigi; Osti, Samuele
PATENT ASSIGNEE(S): Isagro S.p.A., Italy
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

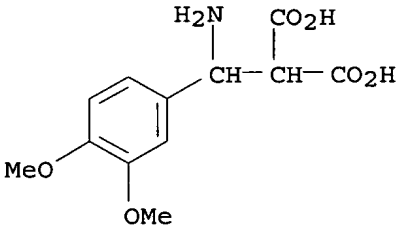
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004103074	A1	20041202	WO 2004-EP5490	20040508

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: IT 2003-MI1020 A 20030521
IT **798557-58-1DP**, copper complexes **798557-59-2DP**, copper complexes
RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as agrochem. and tech. fungicide)
RN 798557-58-1 CAPLUS
CN Propanedioic acid, [amino(4-hydroxy-3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 798557-59-2 CAPLUS
CN Propanedioic acid, [amino(3,4-dimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



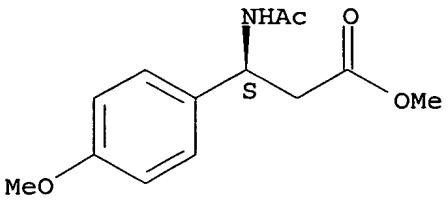
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:995769 CAPLUS
DOCUMENT NUMBER: 141:424300
TITLE: P-chiral phospholanes and phosphocyclic compounds and their use in asymmetric catalytic reactions
INVENTOR(S): Zhang, Xumu; Tang, Wenjun
PATENT ASSIGNEE(S): The Penn State Research Foundation, USA
SOURCE: U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 291,232.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004229846	A1	20041118	US 2004-856014		20040528
US 2003144137	A1	20030731	US 2002-291232		20021108
PRIORITY APPLN. INFO.:			US 2001-336939P	P	20011109
			US 2002-291232	A2	20021108

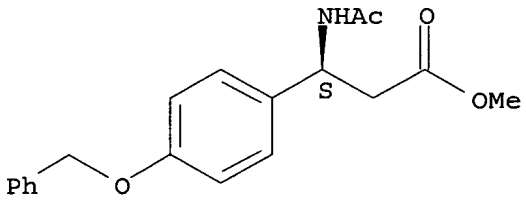
OTHER SOURCE(S): CASREACT 141:424300
IT **434957-82-1P 479550-67-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of P-chiral phospholanes and phosphocyclic compds. and their use in transition metal catalyzed asym. reactions)
RN 434957-82-1 CAPLUS
CN Benzenepropanoic acid, β-(acetylamino)-4-methoxy-, methyl ester, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

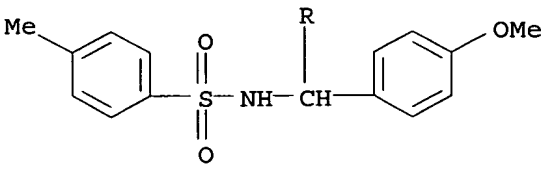


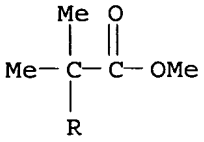
RN 479550-67-9 CAPLUS
CN Benzenepropanoic acid, β-(acetylamino)-4-(phenylmethoxy)-, methyl ester, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L8 ANSWER 5 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:989192 CAPLUS
DOCUMENT NUMBER: 142:113654
TITLE: Product-catalyzed Mannich-type reaction between trimethylsilyl enolates and N-tosylaldimines
AUTHOR(S): Takahashi, Eiki; Fujisawa, Hidehiko; Mukaiyama, Teruaki
CORPORATE SOURCE: Center for Basic Research, The Kitasato Institute (TCI), Tokyo, 114-0003, Japan
SOURCE: Chemistry Letters (2004), 33(11), 1426-1427
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **641614-50-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(alkoxide-initiated autocatalytic Mannich-type reaction between trimethylsilyl enolates and N-tosylaldimines)
RN 641614-50-8 CAPLUS
CN Benzenepropanoic acid, 4-methoxy-α,α-dimethyl-β-[[(4-methylphenyl)sulfonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

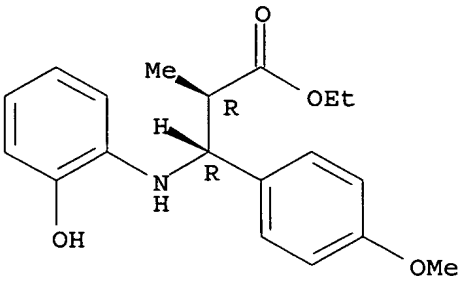
L8 ANSWER 6 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:965208 CAPLUS
DOCUMENT NUMBER: 141:411087
TITLE: Preparation of chiral Bronsted catalysts in asym. synthesis and asym. Mannich, aza-Diels-Alder reaction, hydrophosphorylation therewith
INVENTOR(S): Akiyama, Takahiko
PATENT ASSIGNEE(S): Toagosei Co., Ltd., Japan
SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096753	A1	20041111	WO 2004-JP5602	20040420

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

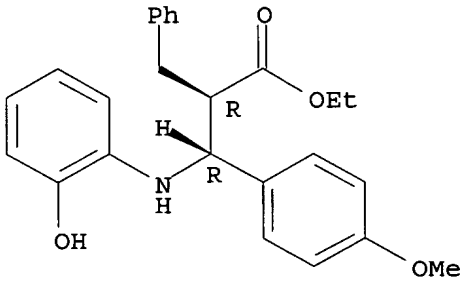
PRIORITY APPLN. INFO.: JP 2003-121706 A 20030425
OTHER SOURCE(S): MARPAT 141:411087
IT **694472-15-6P 694472-22-5P 791121-11-4P 791121-31-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral Bronsted catalysts in asym. synthesis and asym. Mannich, aza-Diels-Alder reaction, hydrophosphorylation therewith)
RN 694472-15-6 CAPLUS
CN Benzenepropanoic acid, β-[(2-hydroxyphenyl)amino]-4-methoxy-α-methyl-, ethyl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



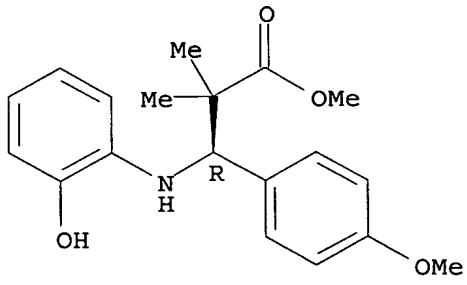
RN 694472-22-5 CAPLUS
CN Benzenepropanoic acid, β-[(2-hydroxyphenyl)amino]-4-methoxy-α-(phenylmethyl)-, ethyl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



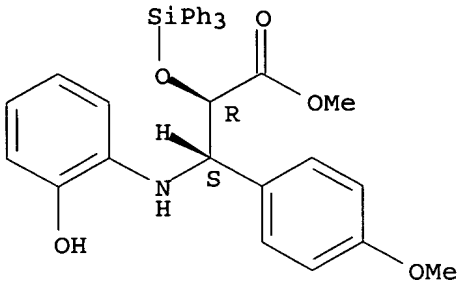
RN 791121-11-4 CAPLUS
CN Benzenepropanoic acid, β-[(2-hydroxyphenyl)amino]-4-methoxy-α,α-dimethyl-, methyl ester, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 791121-31-8 CAPLUS
CN Benzenepropanoic acid, β-[(2-hydroxyphenyl)amino]-4-methoxy-α-[(triphenylsilyl)oxy]-, methyl ester, (αR,βS)- (9CI) (CA INDEX NAME)

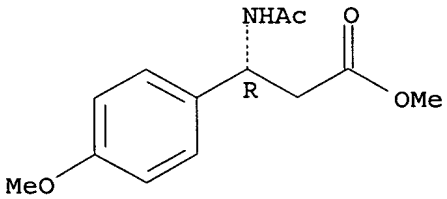
Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:870347 CAPLUS
DOCUMENT NUMBER: 142:55710
TITLE: Synthesis of Monodentate Chiral Spiro Phosphonites and the Electronic Effect of Ligand in Asymmetric Hydrogenation
AUTHOR(S): Fu, Yu; Hou, Guo-Hua; Xie, Jian-Hua; Xing, Liang; Wang, Li-Xin; Zhou, Qi-Lin
CORPORATE SOURCE: State Key Laboratory and Institute of Elemento-Organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Journal of Organic Chemistry (2004), 69(23), 8157-8160
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **810670-02-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of monodentate chiral spiro phosphonites and electronic effect of ligand in asym. hydrogenation)
RN 810670-02-1 CAPLUS
CN Benzenepropanoic acid, β-(acetylamino)-4-methoxy-, methyl ester, (βR)- (9CI) (CA INDEX NAME)

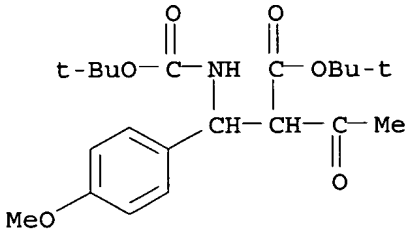
Absolute stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

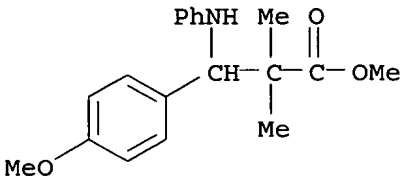
L8 ANSWER 8 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:863000 CAPLUS
DOCUMENT NUMBER: 142:23000
TITLE: A simple route to β-aminomethylketones
AUTHOR(S): Zawadzki, Stefan; Zwierzak, Andrzej
CORPORATE SOURCE: Institute of Organic Chemistry, Technical University

(Politechnika), Lodz, 90-924, Pol.
SOURCE: Tetrahedron Letters (2004), 45(46), 8505-8506
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **801290-81-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of β-aminomethylketones by base-catalyzed Michael-type addition of sodium t-Bu acetoacetate to N-Boc imines)
RN 801290-81-3 CAPLUS
CN Benzenepropanoic acid, α-acetyl-β-[[(1,1-dimethylethoxy)carbonyl]amino]-4-methoxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:848408 CAPLUS
DOCUMENT NUMBER: 142:23050
TITLE: Solvent-free imino-aldol three-component couplings on a conveniently-prepared and reusable phosphoric acid-silica gel support
AUTHOR(S): Lock, Sandra; Miyoshi, Norikazu; Wada, Makoto
CORPORATE SOURCE: Department of Chemistry, Faculty of Integrated Arts and Sciences, University of Tokushima, Tokushima, 770-8502, Japan
SOURCE: Chemistry Letters (2004), 33(10), 1308-1309
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **745033-30-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of β-amino esters, and ketones via three-component Mannich coupling reaction of aldehydes with anilines and silyl enol ethers mediated by silica supported phosphoric acid)
RN 745033-30-1 CAPLUS
CN Benzenepropanoic acid, 4-methoxy-α,α-dimethyl-β-(phenylamino)-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

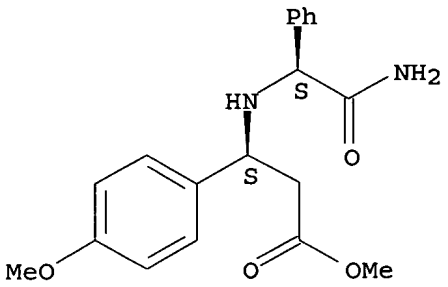
L8 ANSWER 10 OF 649 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:824045 CAPLUS
DOCUMENT NUMBER: 141:332476
TITLE: Process for preparation of chiral β-amino acid derivatives
INVENTOR(S): Dreher, Spencer D.; Ikemoto, Norihiro; Njolito, Eugenia; Rivera, Nelo R.; Tellers, David M.; Xiao, Yi
PATENT ASSIGNEE(S): Merck & Co., Inc, USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004085661	A2	20041007	WO 2004-US8533	20040319

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-457128P P 20030324
US 2003-511210P P 20031015
OTHER SOURCE(S): CASREACT 141:332476; MARPAT 141:332476
IT **769195-23-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. synthesis of chiral β-amino acid derivs. via addition of phenylglycine amide to triazolopyrazinyl β-ketoesters, followed by catalytic hydrogenation of enamines and catalytic hydrogenolysis)
RN 769195-23-5 CAPLUS
CN Benzenepropanoic acid, β-[[(1S)-2-amino-2-oxo-1-phenylethyl]amino]-4-methoxy-, methyl ester, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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                                                          ENTRY    SESSION
FULL ESTIMATED COST                                       46.95     377.83

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PASSWORD:
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 NEWS  3  SEP 01   New pricing for the Save Answers for SciFinder Wizard within
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 NEWS  7  DEC 09   12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15   MEDLINE update schedule for December 2004
 NEWS  9  DEC 17   ELCOM reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  10 DEC 17   COMPUAB reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  11 DEC 17   SOLIDSTATE reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  12 DEC 17   CERAB reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  13 DEC 17   THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30   EPFULL: New patent full text database to be available on STN
 NEWS  15 DEC 30   CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03   No connect-hour charges in EPFULL during January and
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                  February 2005
 NEWS  17 JAN 26  CA/CAPLUS - Expanded patent coverage to include the Russian
                  Agency for Patents and Trademarks (ROSPATENT)
 NEWS  18 FEB 10  STN Patent Forums to be held in March 2005
 NEWS  19 FEB 16  STN User Update to be held in conjunction with the 229th ACS
                  National Meeting on March 13, 2005

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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                                                       ENTRY    SESSION
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DICTIONARY FILE UPDATES:  15 FEB 2005  HIGHEST RN 831913-30-5

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http://www.cas.org/ONLINE/DBSS/registryss.html

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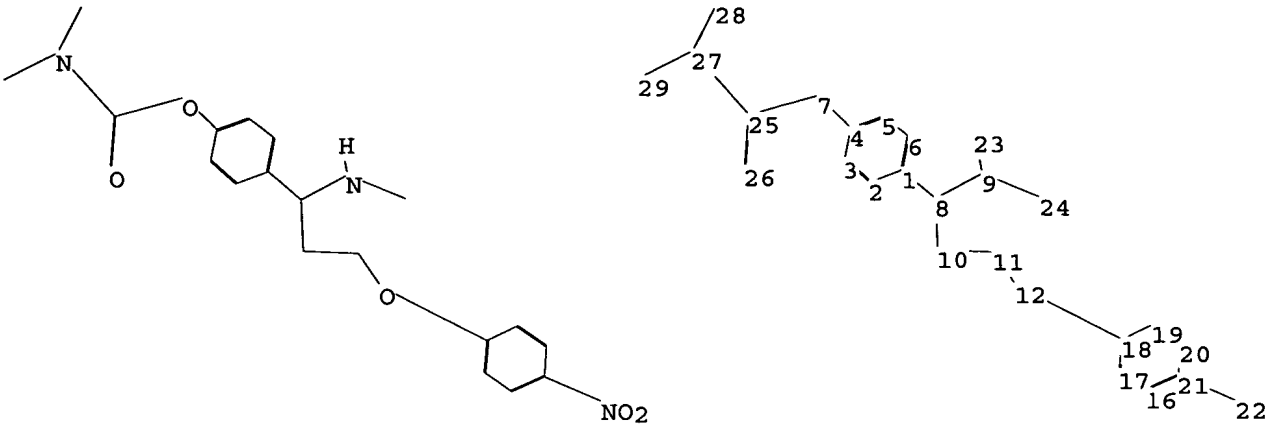

chain nodes :
7 8 9 10 11 12 22 23 24 25 26 27 28 29
ring nodes :
1 2 3 4 5 6 16 17 18 19 20 21
chain bonds :
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27-28 27-29
ring bonds :
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exact/norm bonds :
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exact bonds :
1-8 8-10 9-23 10-11 21-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 :

G1:O,S

G2:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS

L1 STRUCTURE UPLOADED

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SAMPLE SEARCH INITIATED 17:39:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           11 TO      389
PROJECTED ANSWERS:               3 TO      163

L2            3 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 17:39:41 FILE 'REGISTRY'
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100.0% PROCESSED     181 ITERATIONS                          27 ANSWERS
SEARCH TIME: 00.00.01

L3            27 SEA SSS FUL L1

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COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 161.33     161.54

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FILE LAST UPDATED: 15 Feb 2005  (20050215/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l3
L4            6 L3

=> d l4 ibib hitstr abs 1-6

L4   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:291183  CAPLUS
DOCUMENT NUMBER:          140:315087
TITLE:                    Pharmaceuticals containing (hydroxybenzyl)amines as
                          acetylcholine esterase inhibitors and selective
                          serotonin reuptake inhibitors
INVENTOR(S):              Koyama, Kazuo; Marumoto, Masashi; Toda, Seihiro;
                          Suzuki, Keiko; Furumoto, Hiroshi
PATENT ASSIGNEE(S):       BTG International Ltd., UK
SOURCE:                   Jpn. Kokai Tokkyo Koho, 141 pp.
                          CODEN: JKXXAF
```

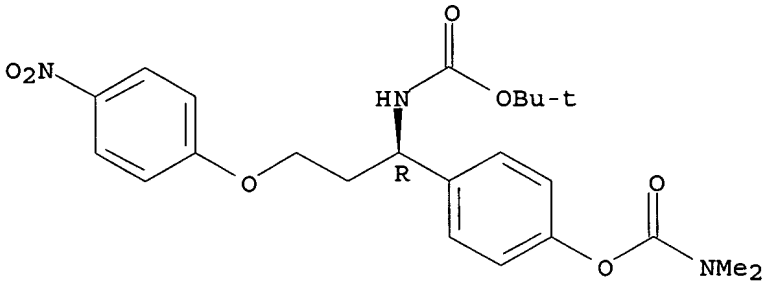
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004107322	A2	20040408	JP 2003-200434	20030723
PRIORITY APPLN. INFO.:			JP 2002-214641 A	20020724

OTHER SOURCE(S): MARPAT 140:315087

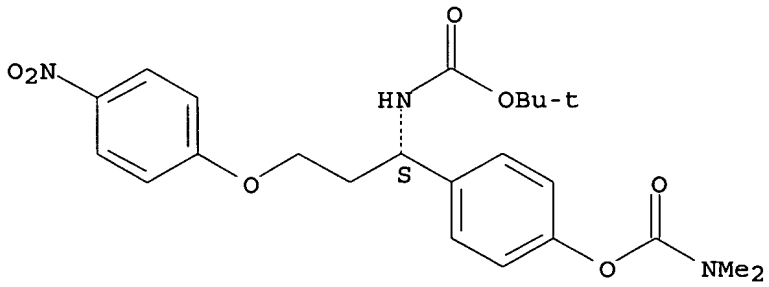
IT **444646-40-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzylamines as acetylcholine esterase inhibitors and selective serotonin reuptake inhibitors for treatment of diseases)
RN 444646-40-6 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT **474295-88-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzylamines as acetylcholine esterase inhibitors and selective serotonin reuptake inhibitors for treatment of diseases)
RN 474295-88-0 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



AB Title pharmaceuticals, useful for treatment of Alzheimer's disease, depression, etc., contain R1C(:X1)X2C6H4CH(NR2R3)AEArom [I: R1 = C1-6 alkyl, (di)(C1-6 alkyl)amino, N-containing saturated heterocyclyl; R2, R3 = H, C1-6 alkyl; Arom = aryl, (un)substituted (hetero)aryl; A = C1-6 alkylene; E = bond, O, S, NR4; R4 = H, C1-7 alkanoyl; X1, X2 = O, S], pharmacol.

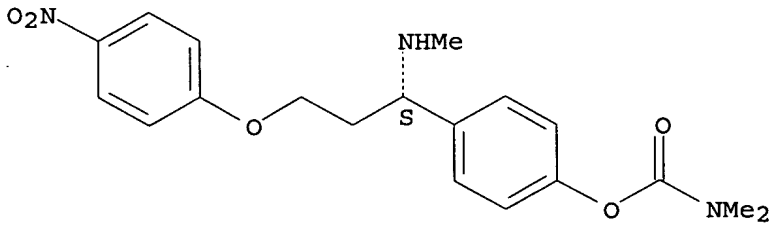
acceptable salts, or esters. Thus, I [R1(C:X1) = N,N-dimethylcarbamoyl, R2 = Me, R3 = H, A = (CH2)2, E = O, Arom = 4-ClPh] inhibited serotonin reuptake and acetylcholine esterase with IC50 values of 210 and 493 nM, resp.

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:781444 CAPLUS
DOCUMENT NUMBER: 140:192823
TITLE: Pharmacological characterization of RS-1259, an orally active dual inhibitor of acetylcholinesterase and serotonin transporter, in rodents: Possible treatment of Alzheimer's disease
AUTHOR(S): Abe, Yasuyuki; Aoyagi, Atsushi; Hara, Takao; Abe, Kazumi; Yamazaki, Reina; Kumagae, Yoshihiro; Naruto, Shunji; Koyama, Kazuo; Marumoto, Shinji; Tago, Keiko; Toda, Narihiro; Takami, Kazuko; Yamada, Naho; Ori, Mayuko; Kogen, Hiroshi; Kaneko, Tsugio
CORPORATE SOURCE: Neuroscience and Immunology Research Laboratories, Sankyo Co., Ltd., Tokyo, 140-8710, Japan
SOURCE: Journal of Pharmacological Sciences (Tokyo, Japan) (2003), 93(1), 95-105
CODEN: JPSTGJ; ISSN: 1347-8613
PUBLISHER: Japanese Pharmacological Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **444667-97-4**, RS 1259
RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. characterization of RS-1259, dual inhibitor of acetylcholinesterase and serotonin transporter, in comparison with other inhibitors in rats and possible treatment of Alzheimer's disease)
RN 444667-97-4 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 444667-96-3
CMF C19 H23 N3 O5

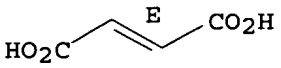
Absolute stereochemistry.



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



AB A dual inhibitor of acetylcholinesterase (AChE) and serotonin transporter (SERT), RS-1259 , was newly synthesized. RS-1259 simultaneously inhibited AChE and SERT in the brain following an oral administration in mice and rats. Actual simultaneous elevation of extra-cellular levels of 5-HT and ACh in the rat hippocampus was confirmed by microdialysis. The compound was as effective as SERT inhibitors such as fluoxetine and fluvoxamine in a 5-hydroxytryptophan-enhancing test in mice. Spatial memory deficits in the two-platform task of a water maze in aged rats were ameliorated by RS-1259 as well as donepezil. Both RS-1259 and donepezil increased the awake episodes in the daytime EEG of rats. Although RS-1259 was weaker than donepezil in enhancing central cholinergic transmission, as observed by ACh elevation in the hippocampus and memory enhancement in aged rats, the efficacy of RS-1259 on the consciousness level, which reflects the whole activity in the brain, was almost the same as that of donepezil. These results suggest that both cholinergic and serotonergic systems are involved in maintaining brain arousal and that a dual inhibitor of AChE and SERT may be useful for the treatment of cognitive disorders associated with reduced brain activity such as in Alzheimer's disease.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:728107 CAPLUS

DOCUMENT NUMBER: 140:128263

TITLE: A conformational restriction approach to the development of dual inhibitors of acetylcholinesterase and serotonin transporter as potential agents for Alzheimer's disease

AUTHOR(S): Toda, Narihiro; Tago, Keiko; Marumoto, Shinji; Takami, Kazuko; Ori, Mayuko; Yamada, Naho; Koyama, Kazuo; Naruto, Shunji; Abe, Kazumi; Yamazaki, Reina; Hara, Takao; Aoyagi, Atsushi; Abe, Yasuyuki; Kaneko, Tsugio; Kogen, Hiroshi

CORPORATE SOURCE: Exploratory Chemistry Research Laboratories, Sankyo Co., Ltd., Shinagawa-ku, Tokyo, 140-8710, Japan

SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(20), 4389-4415
CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

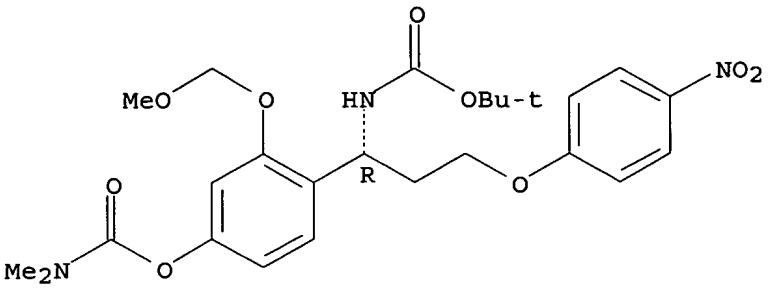
LANGUAGE: English

IT **474295-96-0P 474295-97-1P 474295-98-2P 474296-05-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dimethylcarbamic acid 2-methyl-1-[2-(4-nitrophenoxy)ethyl]-2,3-dihydro-1H-benzo[c]azepin-7-yl ester and related compds. as dual inhibitors of acetylcholinesterase and serotonin transporter)

RN 474295-96-0 CAPLUS

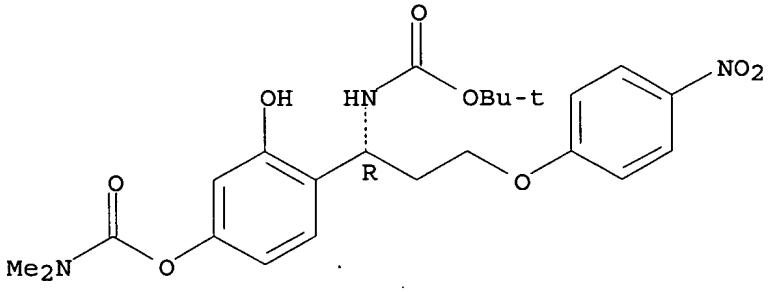
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-(methoxymethoxy)phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



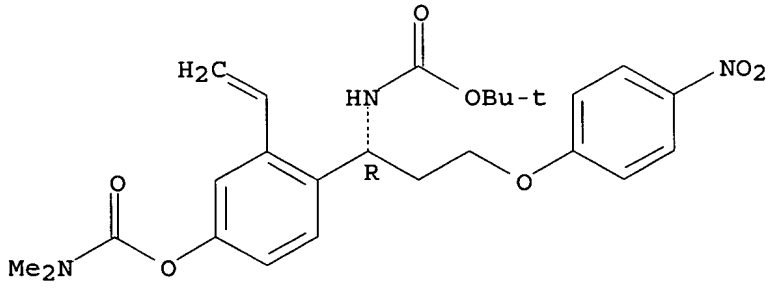
RN 474295-97-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-hydroxyphenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



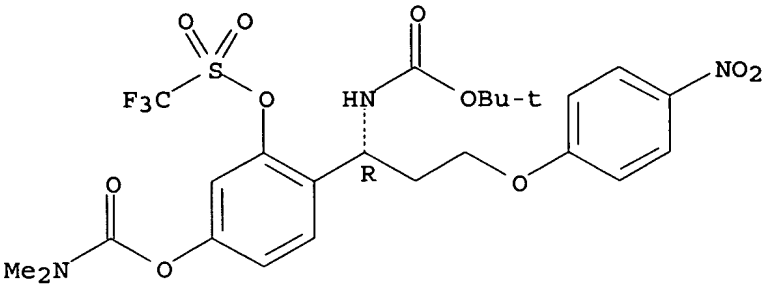
RN 474295-98-2 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-ethenylphenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

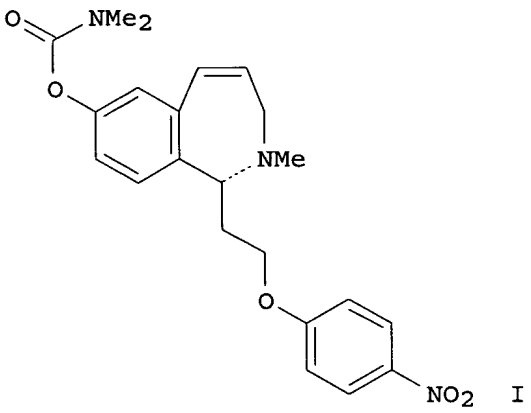


RN 474296-05-4 CAPLUS
CN Methanesulfonic acid, trifluoro-, 5-[[(dimethylamino)carbonyl]oxy]-2-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



I

AB Alzheimer's disease (AD) has been treated with acetylcholinesterase (AChE) inhibitors such as donepezil. However, the clin. usefulness of AChE inhibitors is limited mainly due to their adverse peripheral effects. Depression seen in AD patients has been treated with serotonin transporter (SERT) inhibitors. The authors considered that combining SERT and AChE inhibition could improve the clin. usefulness of AChE inhibitors. In a previous paper, the authors found a potential dual inhibitor of AChE (IC50 = 101 nM) and SERT (IC50 = 42 nM), but its AChE inhibition activity was less than donepezil (IC50 = 10 nM). Here, the authors report the conformationally restricted (R)-I considerably enhanced inhibitory activity against AChE (IC50 = 14 nM) and SERT (IC50 = 6 nM).

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:251390 CAPLUS

DOCUMENT NUMBER: 139:173164

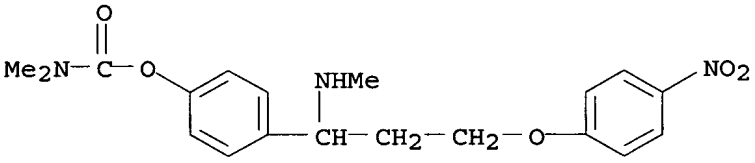
TITLE: Design, synthesis and structure-Activity relationships of dual inhibitors of acetylcholinesterase and serotonin transporter as potential agents for Alzheimer's disease

AUTHOR(S): Toda, Narihiro; Tago, Keiko; Marumoto, Shinji; Takami, Kazuko; Ori, Mayuko; Yamada, Naho; Koyama, Kazuo; Naruto, Shunji; Abe, Kazumi; Yamazaki, Reina; Hara,

Takao; Aoyagi, Atsushi; Abe, Yasuyuki; Kaneko, Tsugio; Kogen, Hiroshi
CORPORATE SOURCE: Exploratory Chemistry Research Laboratories, Sankyo Co., Ltd., Shinagawa-ku, Tokyo, 140-8710, Japan
SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(9), 1935-1955
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:173164

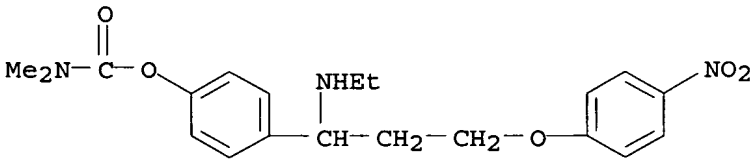
IT **444644-44-4P 444645-31-2P 444667-96-3P 474295-89-1P 578730-21-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(design, synthesis and structure-Activity relationships of dual inhibitors of acetylcholinesterase and serotonin transporter as potential agents for Alzheimer's disease)

RN 444644-44-4 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

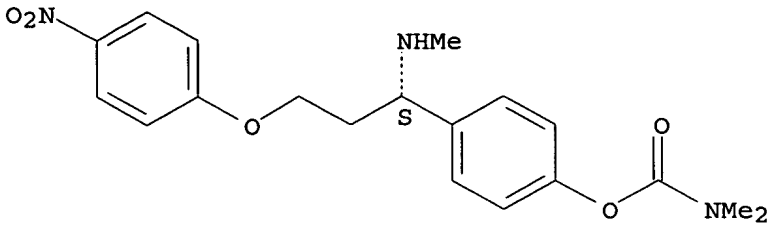
RN 444645-31-2 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(ethylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

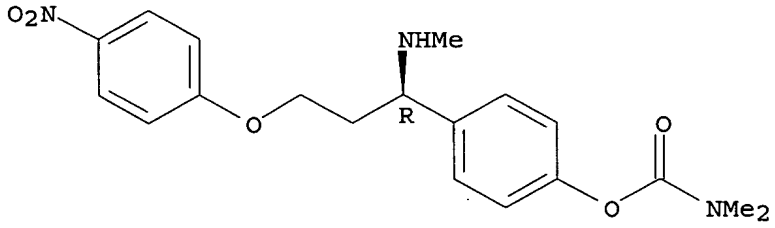
RN 444667-96-3 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

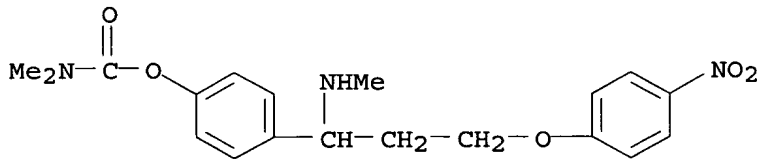


RN 474295-89-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

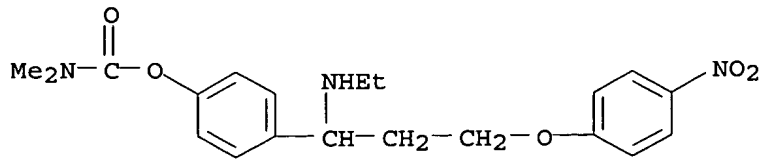
Absolute stereochemistry.



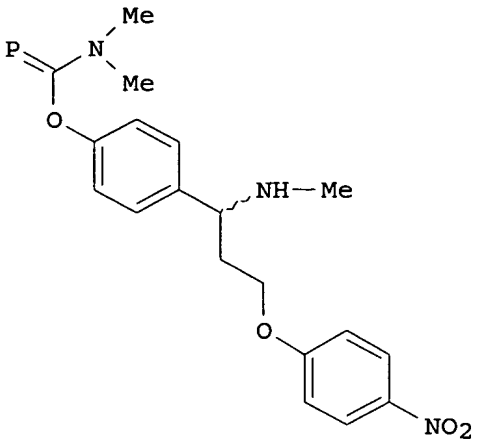
RN 578730-21-9 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)



IT **663198-00-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(design, synthesis and structure-Activity relationships of dual inhibitors of acetylcholinesterase and serotonin transporter as potential agents for Alzheimer's disease)
RN 663198-00-3 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(ethylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)



GI



AB We have designed and synthesized a dual inhibitor of acetylcholinesterase (AChE) and serotonin transporter (SERT) as a novel class of treatment drugs for Alzheimer's disease on the basis of a hypothetical model of the AChE active site. Dual inhibitions of AChE and SERT would bring about greater therapeutic effects than AChE inhibition alone and avoid adverse peripheral effects caused by excessive AChE inhibition. Compound (I) exhibited potent inhibitory activities against AChE (IC50=101 nM) and SERT (IC50=42 nM). Furthermore, I showed inhibitory activities of both AChE and SERT in mice brain following oral administration.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:667576 CAPLUS

DOCUMENT NUMBER: 137:337771

TITLE: Design and Synthesis of Dual Inhibitors of Acetylcholinesterase and Serotonin Transporter Targeting Potential Agents for Alzheimer's Disease

AUTHOR(S): Kogen, Hiroshi; Toda, Narihiro; Tago, Keiko; Marumoto, Shinji; Takami, Kazuko; Ori, Mayuko; Yamada, Naho; Koyama, Kazuo; Naruto, Shunji; Abe, Kazumi; Yamazaki, Reina; Hara, Takao; Aoyagi, Atsushi; Abe, Yasuyuki; Kaneko, Tsugio

CORPORATE SOURCE: Research Information Department, Exploratory Chemistry Research Laboratories, Neuroscience and Immunology Research Laboratories, Sankyo Co., Ltd., Shinagawa-ku, Tokyo, 140-8710, Japan

SOURCE: Organic Letters (2002), 4(20), 3359-3362
CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

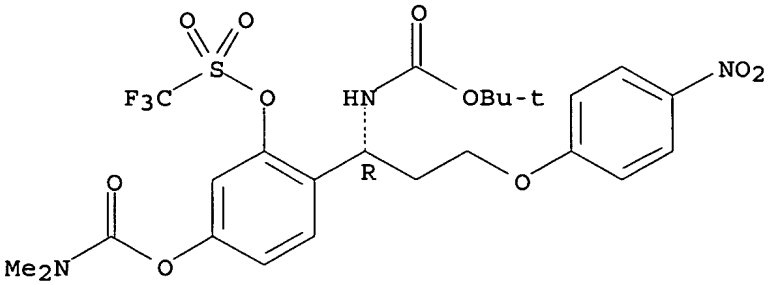
LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:337771

IT **474296-05-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(determination of absolute stereochem. of (dimethylcarbamoyl)(nitrophenoxyethyl)ben

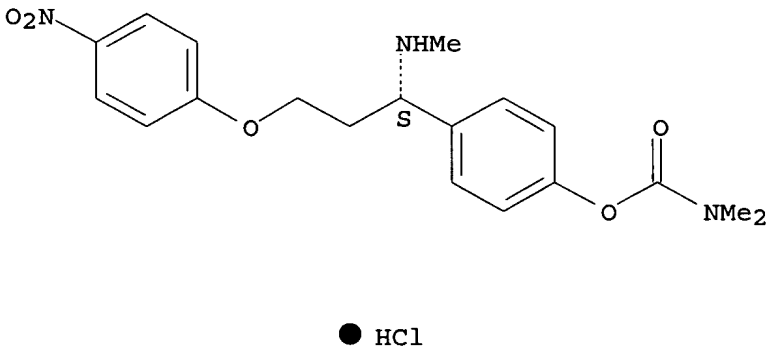
zylamine, prepared as dual acetylcholinesterase/serotonin transporter inhibitor for Alzheimer's disease)
RN 474296-05-4 CAPLUS
CN Methanesulfonic acid, trifluoro-, 5-[[(dimethylamino)carbonyl]oxy]-2-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **444644-93-3P 474295-89-1P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of chiral (dimethylcarbamoyl)(nitrophenoxyethyl)benzylamine and (dimethylcarbamoyl)(nitrophenoxyethyl)dihydrobenzazepine as dual acetylcholinesterase/serotonin transporter inhibitors for Alzheimer's disease)
RN 444644-93-3 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

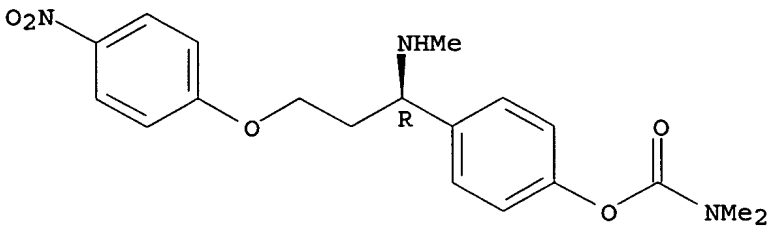
Absolute stereochemistry.



● HCl

RN 474295-89-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

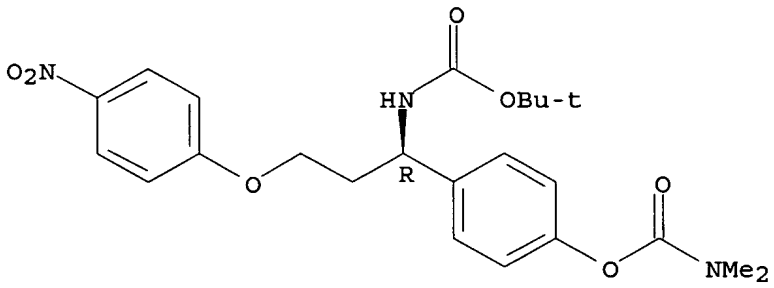
Absolute stereochemistry.



IT **444646-40-6P 444667-96-3P 474295-88-0P 474295-96-0P 474295-97-1P 474295-98-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of chiral (dimethylcarbamoyl)(nitrophenoxyethyl)benzylamine and (dimethylcarbamoyl)(nitrophenoxyethyl)dihydrobenzazepine as dual acetylcholinesterase/serotonin transporter inhibitors for Alzheimer's disease)

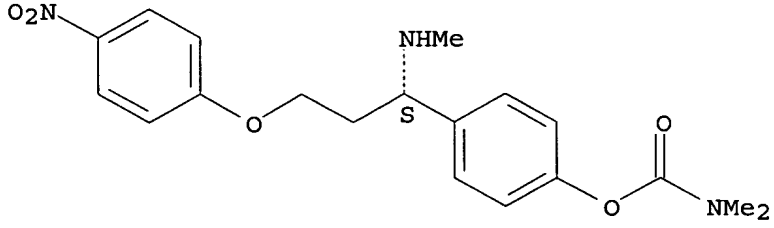
RN 444646-40-6 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



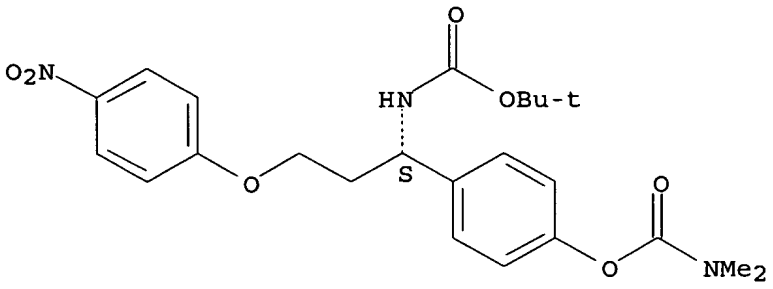
RN 444667-96-3 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



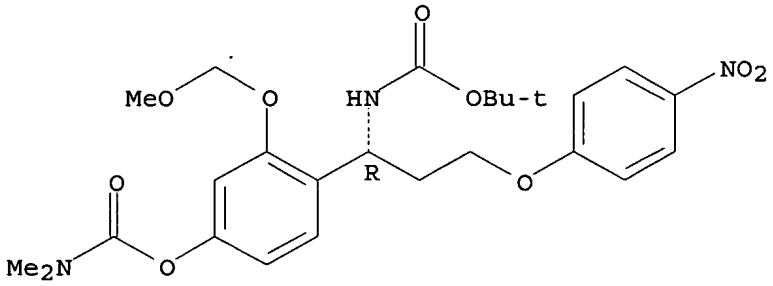
RN 474295-88-0 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



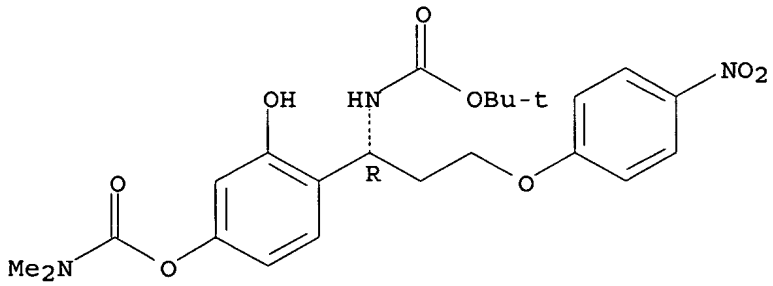
RN 474295-96-0 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-(methoxymethoxy)phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



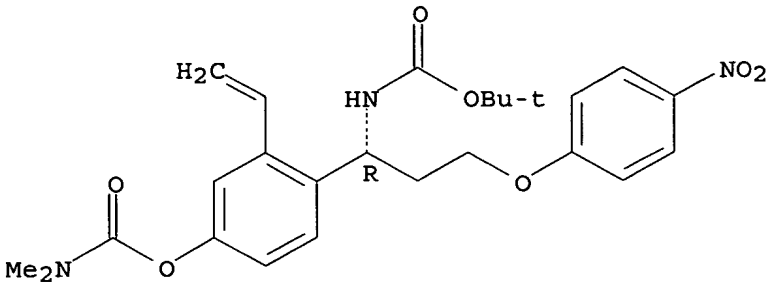
RN 474295-97-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-hydroxyphenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

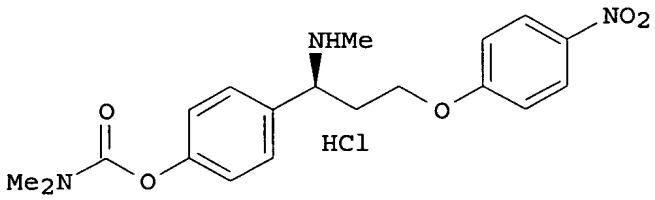


RN 474295-98-2 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]-3-ethenylphenyl ester (9CI) (CA INDEX NAME)

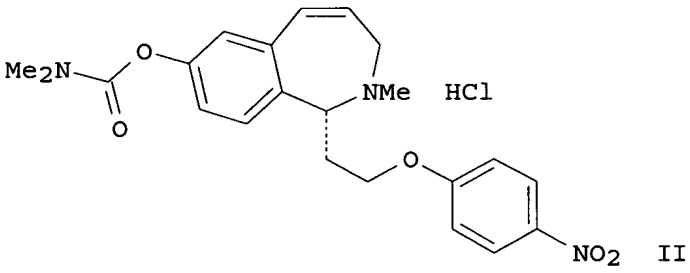
Absolute stereochemistry. Rotation (-).



GI



I



II

AB Highly efficient acetylcholinesterase (AChE) and serotonin transporter (SERT) dual inhibitors, I and II, were designed on the basis of the hypothetical model of AChE active site and synthesized. Both compds. showed potent inhibitory activities against AChE and SERT.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:575038 CAPLUS

DOCUMENT NUMBER: 137:140527

TITLE: Preparation of alkylcarbamic acid esters as acetylcholinesterase inhibitor and serotonin reuptake inhibitor

INVENTOR(S): Koyama, Kazuo; Marumoto, Shinji; Toda, Narihiro; Kogen, Hiroshi; Suzuki, Keiko

PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan

SOURCE: PCT Int. Appl., 300 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059074	A1	20020801	WO 2002-JP400	20020122
W: AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PH, PL, RU, SG, SK, US, VN, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2435883	AA	20020801	CA 2002-2435883	20020122
EP 1362844	A1	20031119	EP 2002-716323	20020122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2003176256	A2	20030624	JP 2002-15136	20020124
US 2004067981	A1	20040408	US 2003-629108	20030728

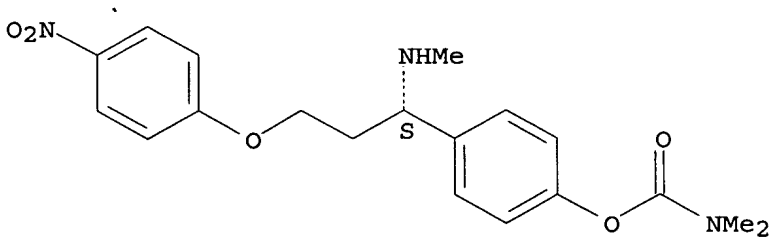
PRIORITY APPLN. INFO.:
JP 2001-18386 A 20010126
JP 2001-305182 A 20011001
WO 2002-JP400 W 20020122

OTHER SOURCE(S): MARPAT 137:140527

IT **444644-93-3P 444645-18-5P 444645-78-7P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of alkylcarbamic acid esters as acetylcholinesterase inhibitor)

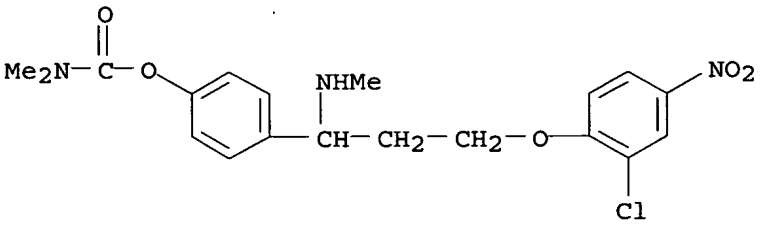
RN 444644-93-3 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

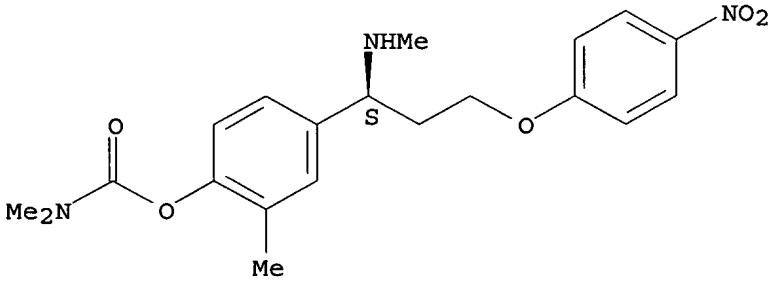
RN 444645-18-5 CAPLUS
CN Carbamic acid, dimethyl-, 4-[3-(2-chloro-4-nitrophenoxy)-1-(methylamino)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

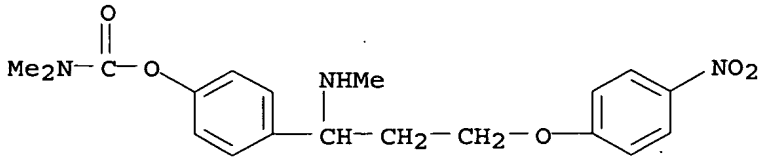
RN 444645-78-7 CAPLUS
CN Carbamic acid, dimethyl-, 2-methyl-4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



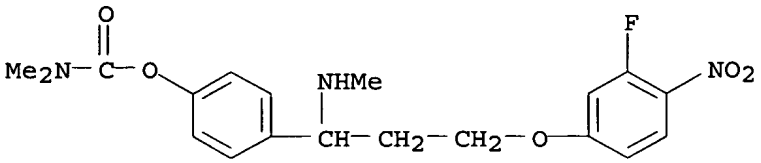
● HCl

IT **444644-44-4P 444644-84-2P 444644-91-1P**
444644-96-6P 444645-06-1P 444645-31-2P
444645-79-8P 444667-97-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of alkylcarbamic acid esters as acetylcholinesterase inhibitor)
RN 444644-44-4 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



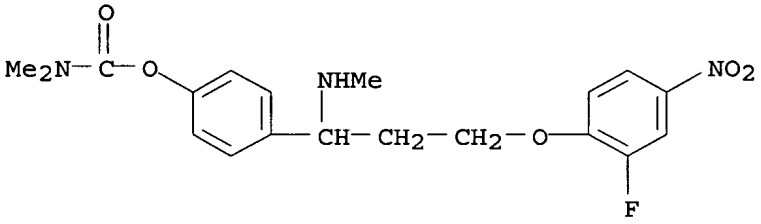
● HCl

RN 444644-84-2 CAPLUS
CN Carbamic acid, dimethyl-, 4-[3-(3-fluoro-4-nitrophenoxy)-1-(methylamino)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

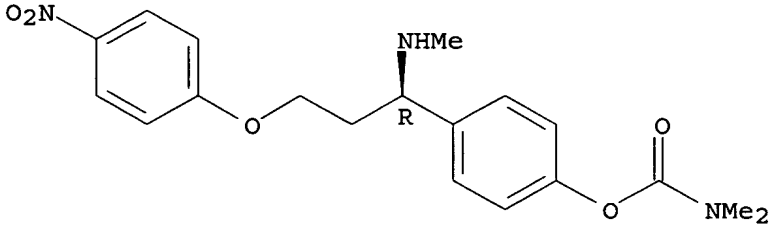
RN 444644-91-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[3-(2-fluoro-4-nitrophenoxy)-1-(methylamino)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

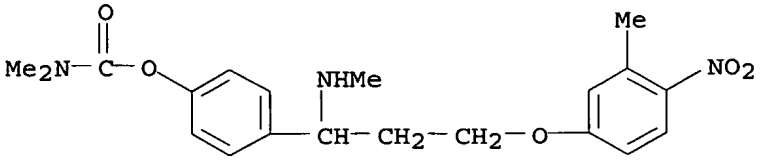
RN 444644-96-6 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



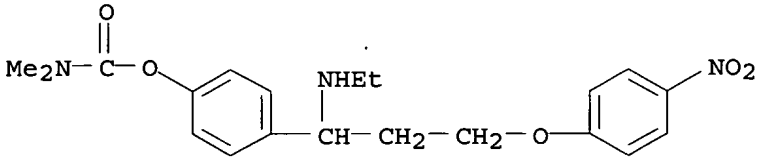
● HCl

RN 444645-06-1 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(methylamino)-3-(3-methyl-4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

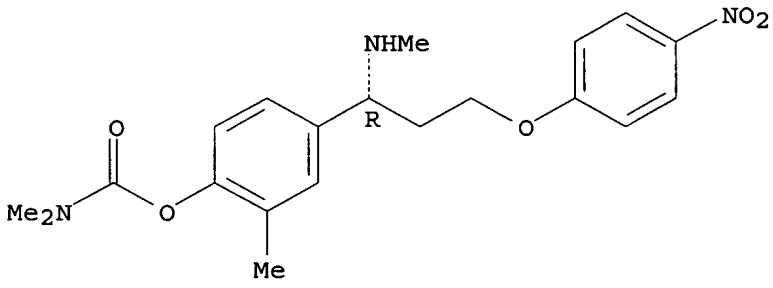
RN 444645-31-2 CAPLUS
CN Carbamic acid, dimethyl-, 4-[1-(ethylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 444645-79-8 CAPLUS
CN Carbamic acid, dimethyl-, 2-methyl-4-[(1R)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



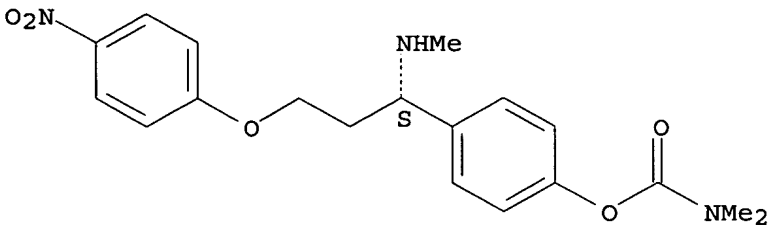
● HCl

RN 444667-97-4 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1S)-1-(methylamino)-3-(4-nitrophenoxy)propyl]phenyl ester, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 444667-96-3
CMF C19 H23 N3 O5

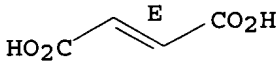
Absolute stereochemistry.



CM 2

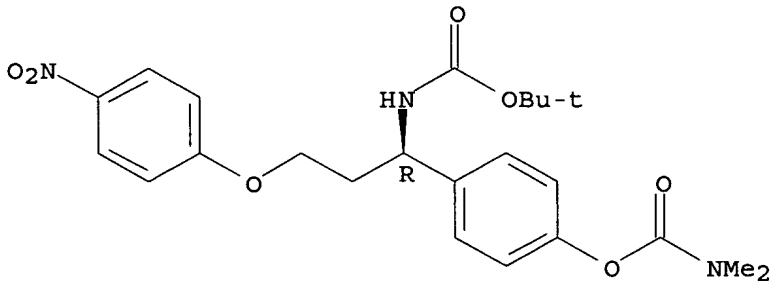
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



IT **444646-40-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of alkylcarbamic acid esters as acetylcholinesterase inhibitor)
RN 444646-40-6 CAPLUS
CN Carbamic acid, dimethyl-, 4-[(1R)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-3-(4-nitrophenoxy)propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1 = C1-6 alkyl; R2, R3 independently = H, alkyl; Ra = C1-6 alkyl, H; Q = aryl; A = C1-6 alkylene; E = single bond, oxygen, sulfur; X1, X2 independently = oxygen, sulfur], stereoisomers, a pharmacol. acceptable salt, or ester are prepared and are in vitro tested

for acetylcholinesterase inhibition effects. The title compound II·HCl was prepared from dimethylcarbamic acid chloride, 1-(3-hydroxyphenyl)ethanone, 4-(trifluoromethyl)benzaldehyde, and methylamine via condensation reaction. The title compound III·HCl showed acetylcholinesterase inhibition at IC50(nM) = 19 and serotonin reuptake inhibition at IC50(nM) = 6.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	33.24	194.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.38	-4.38

FILE 'REGISTRY' ENTERED AT 17:44:34 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

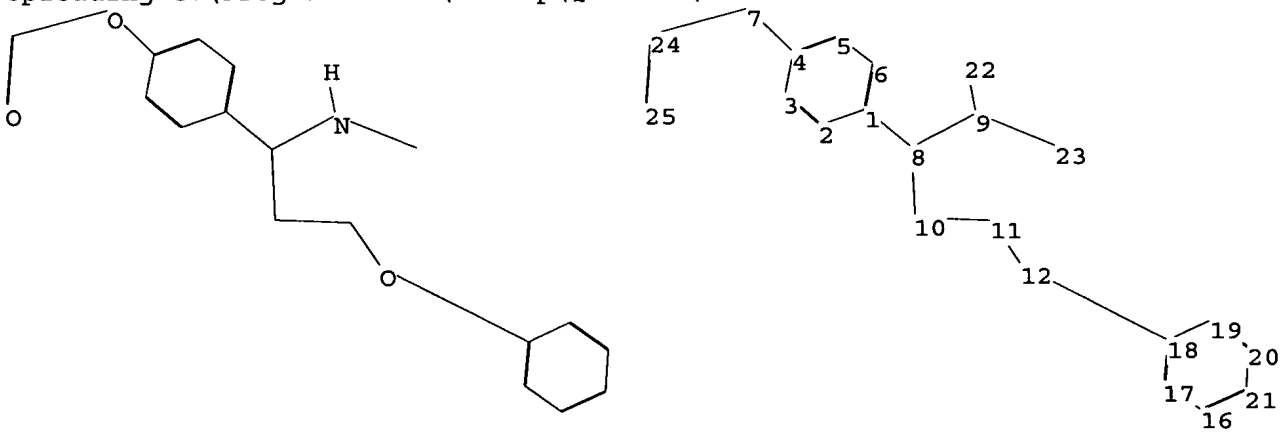
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\106291084.str



```
chain nodes :
7  8  9  10  11  12  22  23  24  25
ring nodes :
1  2  3  4  5  6  16  17  18  19  20  21
chain bonds :
1-8  4-7  7-24  8-9  8-10  9-22  9-23  10-11  11-12  12-18  24-25
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  16-17  16-21  17-18  18-19  19-20  20-21
exact/norm bonds :
4-7  7-24  8-9  9-23  11-12  12-18  24-25
exact bonds :
1-8  8-10  9-22  10-11
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  16-17  16-21  17-18  18-19  19-20  20-21
isolated ring systems :
containing 1 :


G1:O,S

G2:O,S,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS  12:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom  22:CLASS
 23:CLASS  24:CLASS  25:CLASS



L5      STRUCTURE UPLOADED

=> s l5
SAMPLE SEARCH INITIATED 17:44:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     466 TO ITERATE

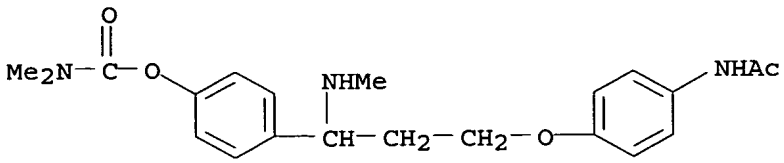
100.0% PROCESSED     466 ITERATIONS                                  9 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          8025 TO    10615
PROJECTED ANSWERS:                9 TO      360

L6            9 SEA SSS SAM L5

=> d scan

L6   9 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Carbamic acid, dimethyl-, 4-[3-[4-(acetylamino)phenoxy]-1-
     (methylamino)propyl]phenyl ester, monohydrochloride (9CI)
MF   C21 H27 N3 O4 . Cl H
```



● HCl

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l5 ful
FULL SEARCH INITIATED 17:45:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8968 TO ITERATE

100.0% PROCESSED 8968 ITERATIONS 156 ANSWERS
SEARCH TIME: 00.00.01

L7 156 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	356.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.38

FILE 'CAPLUS' ENTERED AT 17:45:24 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 16 Feb 2005 VOL 142 ISS 8
FILE LAST UPDATED: 15 Feb 2005 (20050215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 6 L7

```
=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.90     357.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -4.38

FILE 'REGISTRY' ENTERED AT 17:46:48 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 FEB 2005  HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES:  15 FEB 2005  HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\106291085.str
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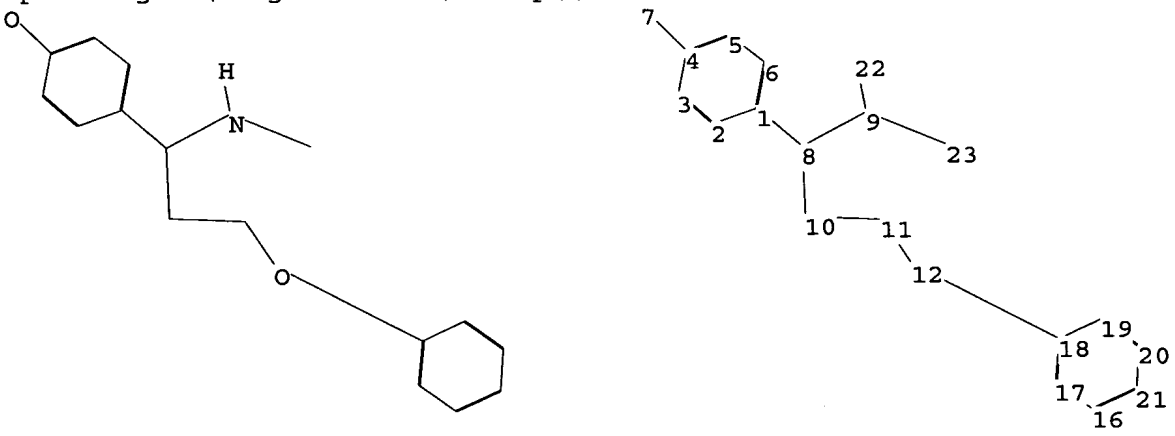


```
chain nodes :
7  8  9  10  11  12  22  23
ring nodes :
1  2  3  4  5  6  16  17  18  19  20  21
chain bonds :
1-8  4-7  8-9  8-10  9-22  9-23  10-11  11-12  12-18
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  16-17  16-21  17-18  18-19  19-20  20-21
exact/norm bonds :
```

```
4-7  8-9  9-23  11-12  12-18
exact bonds :
1-8  8-10  9-22  10-11
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  16-17  16-21  17-18  18-19  19-20  20-21
isolated ring systems :
containing 1 :


G1:O,S

G2:O,S,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS  12:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom  22:CLASS
 23:CLASS



L9      STRUCTURE UPLOADED

=> s l9
SAMPLE SEARCH INITIATED 17:47:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    483 TO ITERATE

100.0% PROCESSED     483 ITERATIONS                              9 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         8342 TO    10978
PROJECTED ANSWERS:               9 TO      360

L10           9 SEA SSS SAM L9

=> s l9 ful
FULL SEARCH INITIATED 17:47:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   9360 TO ITERATE

100.0% PROCESSED    9360 ITERATIONS                           157 ANSWERS
SEARCH TIME: 00.00.01

L11         157 SEA SSS FUL L9

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   161.33     518.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -4.38

FILE 'CAPLUS' ENTERED AT 17:47:21 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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```

FILE COVERS 1907 - 16 Feb 2005 VOL 142 ISS 8
FILE LAST UPDATED: 15 Feb 2005 (20050215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l11
L12 6 L11

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.35	519.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.38

FILE 'REGISTRY' ENTERED AT 17:48:52 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

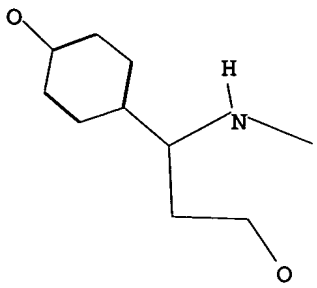
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

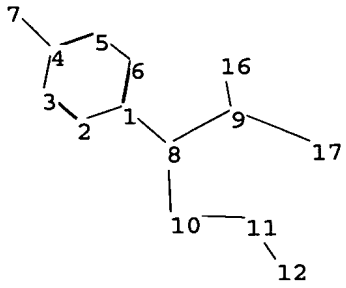
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\106291086.str





chain nodes :
7 8 9 10 11 12 16 17
ring nodes :
1 2 3 4 5 6
chain bonds :
1-8 4-7 8-9 8-10 9-16 9-17 10-11 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
4-7 8-9 9-17 11-12
exact bonds :
1-8 8-10 9-16 10-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

G2:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 16:CLASS 17:CLASS

L13 STRUCTURE UPLOADED

=> s l13
SAMPLE SEARCH INITIATED 17:49:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6545 TO ITERATE

15.3% PROCESSED 1000 ITERATIONS 21 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 126050 TO 135750
PROJECTED ANSWERS: 2045 TO 3451

L14 21 SEA SSS SAM L13

=> s l13 ful

FULL SEARCH INITIATED 17:49:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 130713 TO ITERATE

100.0% PROCESSED 130713 ITERATIONS 2149 ANSWERS
SEARCH TIME: 00.00.01

L15 2149 SEA SSS FUL L13

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	681.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.38

FILE 'CAPLUS' ENTERED AT 17:49:22 ON 16 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 16 Feb 2005 VOL 142 ISS 8
FILE LAST UPDATED: 15 Feb 2005 (20050215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15
L16 309 L15

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	681.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.38

STN INTERNATIONAL LOGOFF AT 17:50:27 ON 16 FEB 2005